

**Joint Online Two Weeks Certificate Program**  
**5G Design: Journey from Devices to Circuits**  
**March 1-12, 2021**

**Principal Coordinator: IIT Guwahati**  
**Joint Principal Coordinator: NIT Patna**

**Jointly Organized by:**  
**IIT Guwahati**  
**MNIT Jaipur**  
**PDPM IIITDM Jabalpur**  
**NIT Patna**



## Objective & Scope

To enable theoretical and practical understanding of the most popular 5G circuit designing problems.

## Speakers

- Shri Surinder Singh (Director, SCL Chandigarh)
- Shri H. S Jatana (Senior Head, SCL Chandigarh)
- Prof. Anand Bulusu (IIT Roorkee)
- Dr. Salil Kashyap
- Dr. Ribhu
- Dr. Sudarshan Mukherjee
- Dr. Gaurav Trivedi, IITG
- Dr. Aditya Dalakoti
- Mr. Ashish Jindal (DRDO)
- Puneet Mittal

## Key Features

- Online / Live lectures sessions by subject experts.
- Comprehensive tutorials and practice notes.
- Online lab and training sessions.
- Follow up sessions and discussion forums on research problems and internships.

## Link for registration:

<https://forms.gle/UGpknj5bZxpn4UEc7>

## Supported by-

Ministry of Electronics and Information Technology, MeitY, Govt. of India.

## Coordinators

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## Course Contents

- Introduction and Tools Overview
- 5G MIMO Architecture and System Simulation
- RF ASIC Concepts
- Power Amplifier Design
- Power Amplifier Simulations
- LNA Design: LNA Basics, Design Topologies, Trade-Off Space for LNA
- LNA Simulations: Design and Simulations of a couple of LNA topologies using a Scikit-RF.
- RF Channel Architecture and Simulations: Different Channel Architectures

## Course Fee Details

**Academic (student/faculty): 500 INR**  
**Industry People : 1000 INR**  
**Others : 1000 INR**

### Online payment details

**Bank Name: Allahabad Bank**  
**Account Name: NIT Patna**  
**Account No.: 50380476798**  
**IFSC Code: ALLA0212286**

**Last Date for registration :**  
**February 25, 2021**

### For more details visit:

<http://www.nitp.ac.in/ict/index.php>

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